

SCALE NOTE:
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY,
CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.

GENERAL NOTES:

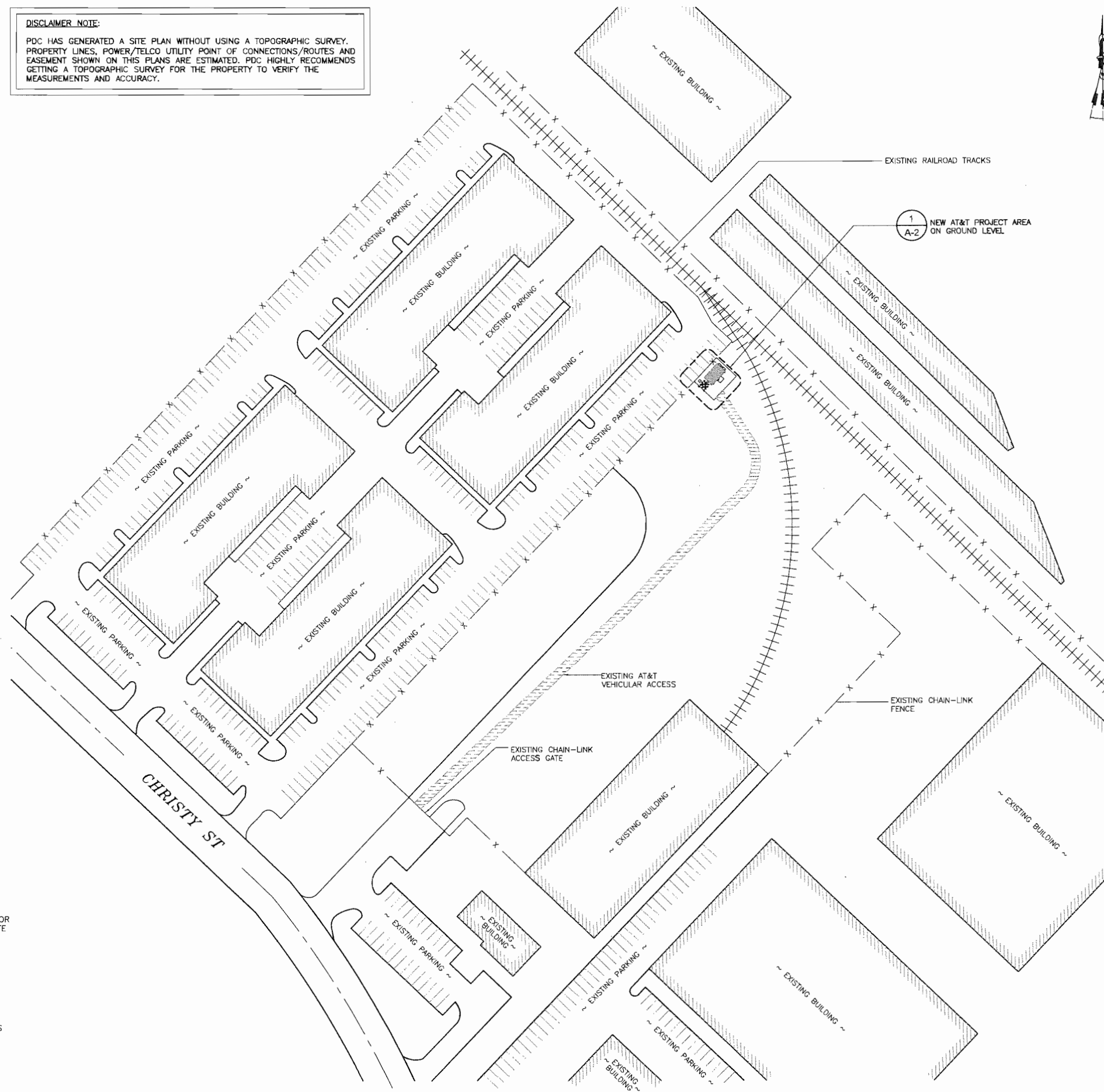
1. THIS PROPOSAL IS FOR THE MODIFICATION OF AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF INSTALLATION OF THE FOLLOWING: ONE (1) INDOOR MAIN UNIT MOUNTED TO EXISTING RACK INSIDE EXISTING EQUIPMENT SHELTER, THREE (3) NEW LTE PANEL ANTENNAS [TO REPLACE THREE (3) EXISTING ANTENNAS], SIX (6) NEW RRU'S, ONE (1) NEW 3" FIBER/POWER CONDUIT, SIX (6) NEW RET CONTROLLERS, ONE (1) NEW FIBER/POWER DOME UNIT AND ONE (1) NEW GPS ANTENNA.
2. THE EXISTING FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.
3. THE EXISTING FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP ACCESS IS REQUIRED).
4. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
5. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS PROPOSAL.
6. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT NEW.
7. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
8. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.
9. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTION REQUIRED FOR CONSTRUCTION.
10. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
11. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND DRAWINGS PROVIDED BY THE SITE OWNER. SUBCONTRACTOR SHALL NOTIFY AT&T OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

SITE WORK GENERAL NOTES:

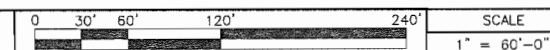
1. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
2. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
3. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
4. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
5. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
6. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
7. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
8. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
9. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
10. ADD ELECTRICAL CONNECTIONS IN THE PUBLIC RIGHT OF WAY SHALL BE INSTALLED UNDERGROUND TO THE NEAREST UTILITY POLE.
11. NO WORK SHALL BE DONE WITHIN THE PUBLIC RIGHT-OF-WAY WITHOUT THE PRIOR APPROVAL AND PERMIT FROM THE ENVIRONMENTAL AND PUBLIC WORKS MANAGEMENT DEPARTMENT - ADMINISTRATIVE SERVICES.
12. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ALL DAMAGED OFFSITE IMPROVEMENTS CAUSED BY CONSTRUCTION. CALL PUBLIC WORKS INSPECTOR FOR INSPECTION OF OFFSITE IMPROVEMENTS AT SUBSTANTIAL COMPLETION OF ONSITE WORK.
13. NO CONSTRUCTION DEBRIS SHALL BE SPILLED OR STORED ONTO PUBLIC RIGHT-OF-WAY.
14. NO RUNOFF SEDIMENT OR WASTES IS ALLOWED IN WATER LEAVING THE SITE.
15. ALL SITE UTILITIES SHALL BE CONSTRUCTED UNDERGROUND TO THE NEAREST POLE.
16. ALL LABOR, EQUIPMENT AND MATERIAL REQUIRED FOR OFF-SITE IMPROVEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

DISCLAIMER NOTE:

PDC HAS GENERATED A SITE PLAN WITHOUT USING A TOPOGRAPHIC SURVEY. PROPERTY LINES, POWER/TELCO UTILITY POINT OF CONNECTIONS/ROUTES AND EASEMENT SHOWN ON THIS PLANS ARE ESTIMATED. PDC HIGHLY RECOMMENDS GETTING A TOPOGRAPHIC SURVEY FOR THE PROPERTY TO VERIFY THE MEASUREMENTS AND ACCURACY.



SITE PLAN



PROJECT INFORMATION:
CNU0445/CNU0407
LTE SITE: CCL00445
FA#: 10087878 USID: 13276
NEW PARK MALL
42400 CHRISTY STREET
FREMONT, CA 94538

CURRENT ISSUE DATE:
09/30/11

ISSUED FOR:
100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	12/10/10	90% CONSTRUCTION DRAWING	JD
0	01/27/11	100% CONSTRUCTION DRAWING	JD
1	06/14/11	DESIGN CHANGE	HG
2	08/03/11	ADD RRUS ON TOWER	HG
3	09/30/11	ANTENNA RE-DESIGN	HG

PLANS PREPARED BY:
PDC CORPORATION
CPD
1062 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5868

CONSULTANT:
LYLE
3140 GOLD CAMP DR, SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY: **JD** CHK.: **PP** APV.: **SAS**

LICENSER:

SHEET TITLE:

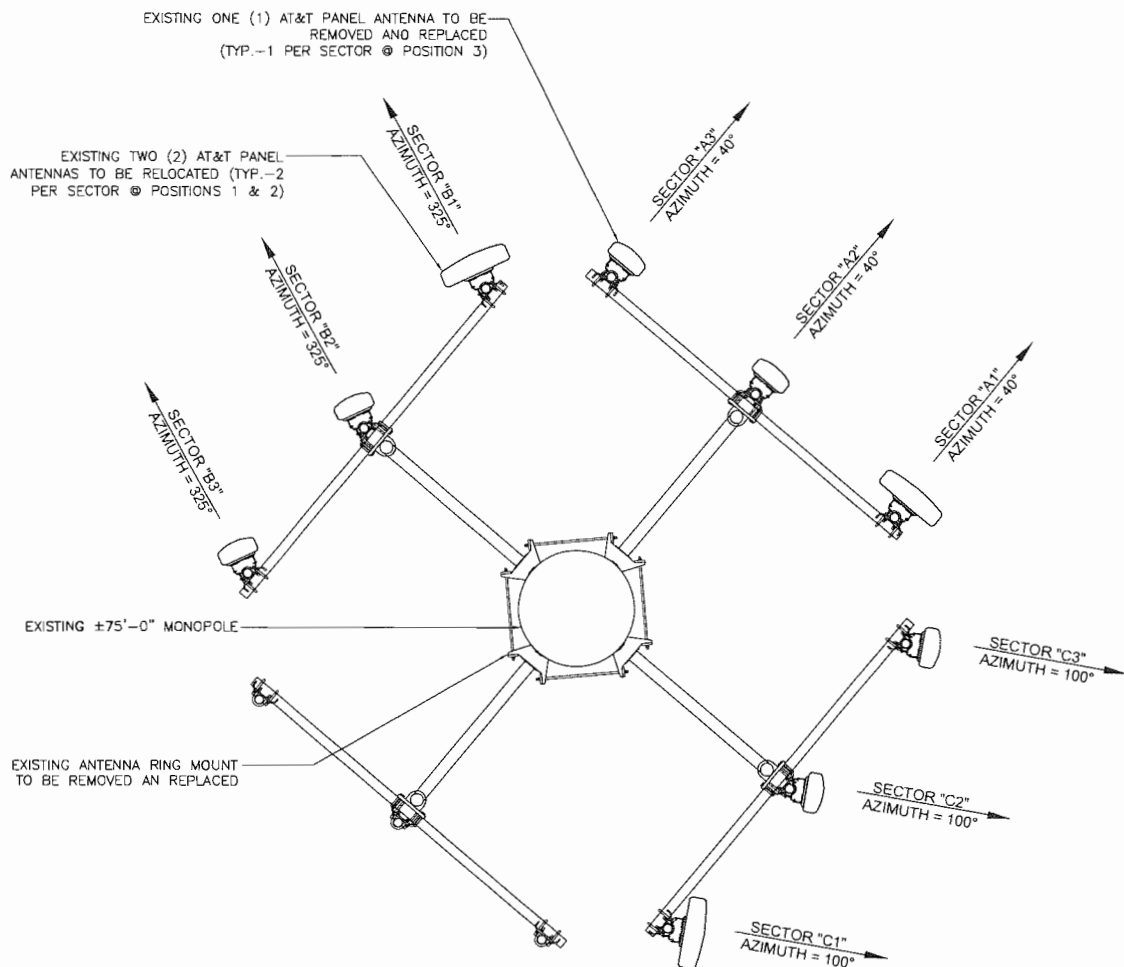
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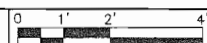
A-1

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EXISTING ANTENNA PLAN

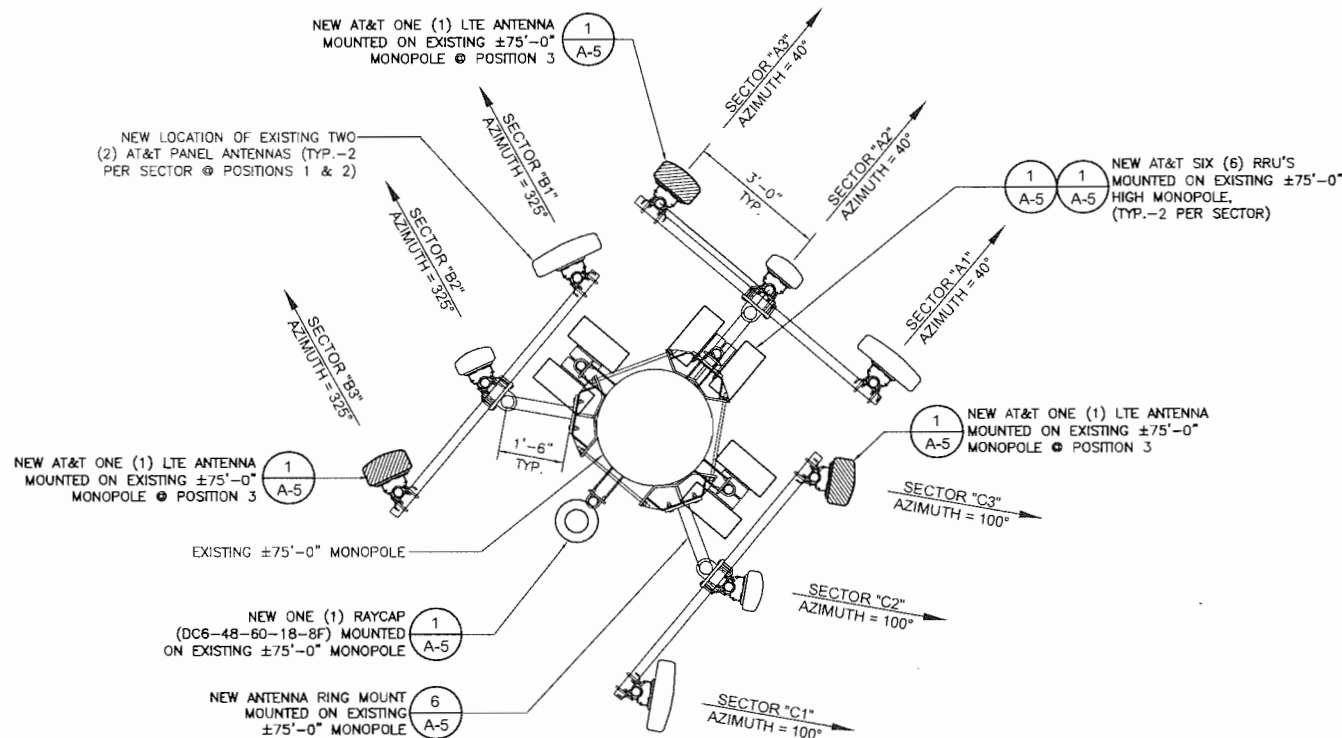


SCALE
1/2" = 1'-0"

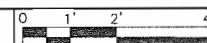
1

NOTE:

1. ANTENNA CONFIGURATIONS BASED ON RFDS REVISION 8.4 DATED 08-10-2010.
2. NEW ANTENNA DIMENSIONS: 51" x 12" x 8"
3. EXISTING ANTENNA TO BE REPLACED DIMENSIONS: 51" x 12" x 6"

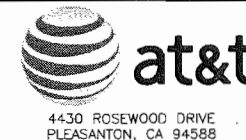


NEW ANTENNA PLAN



SCALE
1/2" = 1'-0"

2



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RANCHO CORDOVA, CA 95670

DRAWN BY: CHK.: APV.:

JD PP SAS

LICENSER:

SHEET TITLE:

ANTENNA PLANS

SHEET NUMBER:

A-3

ANTENNA MOUNTING DETAIL

RRU INSTALLATION

DESCRIPTION	VALUE
WEIGHT	
RRUS	20 kg
COLOR	
GRAY	NCS S2502-R
20 kg = 44.09 POUNDS	

UNIT MEASUREMENT mm

383 mm = 15.07 INCHES
636 mm = 25.03 INCHES
169 mm = 6.65 INCHES

RRU MOUNTING DETAIL

ANTENNA MOUNTING DETAIL1

RRU INSTALLATION/SPECS2

RRU MOUNTING DETAIL3

GPS ANTENNA MOUNTING4

DC6-48-60-18-8F

DC Power Surge Protection

Electrical Specifications	
Model Number	DC6-48-60-18-8F
Nominal Operating Voltage	48 VDC
Nominal Discharge Current (I _n)	20 kA 8/20 μs
Maximum Discharge Current (I _{max}) per IEC 61643-1	60 kA 8/20 μs
Maximum Continuous Operating Voltage (U _c)	75 VDC
Voltage Protection Rating	400 V

*Module Assembly Part #: DC6-48-60-18-8F-U Field upgradable, prewired module package for 1 remote radio

Mechanical Specifications	
Suppression Connection Method	Compression lug, #2-#14 AWG Copper, #2-#12 Aluminum
Fiber Connection Method	LC-LC Single mode duplex
Environmental Rating	IP 68, 7m 72hrs
Operating Temperature	-40° C to + 60° C
Storage Temperature	-70° C to + 60° C
Cold Temperature Cycling	IEC 61360-3-22b: -30° C to + 60° C 200 hrs @ 5 min
Resistance to Aggressive Materials	CEI IEC 61073-2 including acids and bases
UV Protection	ISO 4802-2 Method A Xenon-Arc 2160 hrs

WEIGHT
System: 18.9 lbs (84.07 N)
Mount : 13.9 lbs (57.38 N)
Total: 32.8 lbs (141.45 N)

Stand-alone Module Assembly: 1 lb (4.45 N)

COMBINED WIND LOADING
150mph (sustained): 105.7 lbs (470 N)
195mph (gust): 213.6 lbs (950 N)

STANDARDS
Strikeorb modules are compliant to the following Surge Protection Device (SPD) Standards:
- ANSI/UL 1449 - 3rd Edition
- IEEE C62.41
- NEMA LS-1, IEC 61643-1:2005 2nd Edition:2005
- IEC 61643-12
- EN 61643-11:2002 (including A11:2007)

ANTENNA MOUNTING DETAIL

DC6-48-60-18-8F SPECS5

ANTENNA MOUNTING DETAIL6

4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

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DRAWN BY: CHK.: APV.:

JD PP SAS

LICENSER:

SHEET TITLE:

EQUIPMENT AND CONSTRUCTION DETAILS

SHEET NUMBER:

A-5